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APPENDIX A

BORING LOGS

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LOCKWOOD AVENUE PROPERTY

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BORING LOG FOR: RAYMARK – OU3- FERRY CREEK
PROJECT NO.: N7491-0320
LOGGED BY: KAYLEEN JALKUT
TRANSCRIBED BY: FMD
DRILLED BY (Company/Driller): ATL / Mike Hawkins
GRD. SURFACE 8.0 Ft.
ELEVATION FROM: Est. from topo. map

BORING NO.: B2-SB01
START DATE: 8-4-97
COMPLETION DATE: 8-4-97
MON. WELL NO.: NA
CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
	1/12	15	OU3-B2-SB1-0002			Brown Black	SILT -mostly silt, trace fine sand, large stems (organic), pot. asbestos tiles/boards, roots	ML	Damp, pot. asbestos gray fiber boards/pads (fill)	0	2.4
2'	1/12	24	1200 S-1								
	1/12	16	OU3-B2-SB1-0204			Brown Black	Similar to above w/more twigs, roots, pot. asbestos pads	ML	Damp, pot. asb. (fill)	0	3.1
4'	1/12	24	1210 S-2								
	1/12	16	OU3-B2-SB1-0406			Brown	Similar to above w/pot. asbestos pad, organics, fewer twigs, more roots	ML	Damp, pot. asb. - finer org. veg tissue, sea shells	0	3.4
6'	1/12	24	1220 S-3								
	1	24	OU3-B2-SB1-0608			Black	S-4A SILT w/org. fibers, trace fine sand, pot. asbestos boards	ML	Damp fill	37.4	10
8'	24	24	1225 S-4			Brown	S-4B PEAT-fibrous org. tissue, roots	PT	Saturated-water squeezed out of peat soil holding H_2O	157	13.6
	WOH	23	OU3-B2-SB1-0810			Brown	SILT/PEAT - mostly silt w/peat like fibrous tissue, roots, stems and pot asb. fiber board (gray)	ML/PT	Damp holding onto H_2O	16.0	8.7
10'	WOH	24	1230 S-5								
	WOH	24	OU3-B2-SB1-1012			Brown	SILT - mostly silt, trace fine sand, pot. asb. pads, roots, twigs fibers (plant)	ML	Damp, pot. asbestos, soft	56.2	30.3
12'	WOH	24	1235 S-6								
	WOH	24	OU3-B2-SB1-1214			brown	SILT - similar to above - no visible asbestos, fewer org. fibers than above, trace fine sand	ML	Damp	122	62
14'	WOH	24	1245 S-7								
	WOH	24	OU3-B2-SB1-1416			brown	SILT - similar to above, few org. fibers, tr. fine sand	ML	Damp - no visual asbestos soft	59.1	26.2
16'	1/12	24	1250 S-8				EOB @ 16"				

TYPE OF DRILLING RIG: CME-850 ATV TRACK MOUNT
METHOD OF ADVANCING BORING: 4.25' I D HSA, 8" O.D. HSA
METHOD OF SOIL SAMPLING: 3" BARRELS DROPPED W/300 LB HYDRAULIC HAMMER IN 18IN
METHOD OF ROCK CORING:
GROUNDWATER LEVELS: NO WATER IN AUGERS @ 1305, BACKFILL W/BENT. SLURRY
OTHER OBSERVATIONS: LEVEL C-S-2 TO S-8 DRILLING 0-16' BACKFILL POT. ASB. IN THE MORE SILTY LAYERS VERSUS THE PEAT LIKE LAYERS

Tetra Tech NUS, Inc.

BORING NO.: B2-SB01

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BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK	BORING NO.:	B2-SB02
PROJECT NO.:	N7491-0320	START DATE:	8/1/97
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY: FMD	COMPLETION DATE: 8/1/97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS	MON. WELL NO.:	
GRD. SURFACE	10.5 ft.	ELEVATION FROM: Est. from. topo. map	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID	PID]
	1	18 / 24	OU3-B2-SB02-0002			brown	Silty SAND-mostly fine sand, some silt, trace. twigs,	SM	Dry, Crumbly, Loose	0	0.3
	1						roots, plant fibers				
	1										
2'	1		1115 S-1								
	2	12 / 24	OU3-B2-SB02-0204			brown	silty SAND, fine sand, silt, trace organic fibers, trace asphalt	SM	Oxidized-like staining	0	0.4
	4						shingles, pot. Asbestos fibers (?)		Fill, Dry		
	5										
4'	5		1120 S-2								
	2	19 / 24	OU3-B2-SB02-0406			brown-black	Silty SAND, fine sand, silt, asphalt shingles, black	SM	Dry, Upgrade 1130-	0	0
	1						crumbly waste material, pot asbestos tiles twigs,		Fill		
	1						Roots				
6'	2		1130 S-3								
	2	21 / 24	OU3-B2-SB02-0608			brown-black	Silty SAND-similar to above w/pot asbestos tiles, asphalt	SM	Damp	0	0
	3						shingles, vitrified clay pipe, twigs, roots		Fill		
	3										
8'	2		1140 S-4								
	1	10 / 24	OU3-B2-SB02-0810			black	SILT w/tr. fine sand, plastic sheets (flexible) non-flexible	SM	Saturated	0	0
	1						plastic sheets, asphalt shingles, asbestos like hairs, organic		Fill		
	1						hairs, twigs		Jet black		
10'	1		1150 S-5						waste coloration		
	1	24 / 24	OU3-B2-SB02-1012			brown-black	S-6A (O-17") - SILT w/org. fibers, pot-black man-made waste	SM/ OL?	Damp	60	8
	2						material, shingles		Fill		
	4						S-6B (17-24") asphalt shingles w/silt	SM/ FILL		120	10
12'	9		1200 S-6								
	4	8 / 24	OU3-B2-SB02-1214			black	FILL - asphalt-like shingles, tr.-silt pot. cardboard fibers	SM/ FILL	Damp	0	0
	2						in shingles				
	1										
14'	1		1210 S-7								
	1	24 / 24	OU3-B2-SB02-1416			brown-black	S-8A (4in) org SILT w/large fibers (plant) stems, trace	OL/ FILL	Saturated	0	0
	1						Shingles				
	2						S-8B (4-24) - SILT w/tr. fine thin plant fibers tr. fine sand	SM	Saturated	0	0
16'	2		1218 S-8								

TYPE OF DRILLING RIG:	CME 850 ATV TRACK MOUNT
METHOD OF ADVANCING BORING:	4.25' I D HAS, 8 in. O.D. HSA
METHOD OF SOIL SAMPLING:	3 IN BARREL 300 LB HYDRAULIC HAMMER 18 INCH DROP
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	WATER @ 12.10 IN AUGERS AGS
OTHER OBSERVATIONS:	UPGRACE TO C @ 1130 HRS, DRILL CREW DOWNGRADES 1120 FOR BREAK RESUME C @ 1230 - 1300

Tetra Tech NUS, Inc.

BORING NO.: B2-SB02

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BORING LOG FOR: RAYMARK – OU3- FERRY CREEK
PROJECT NO.: N7491-0320
LOGGED BY: KAYLEEN JALKUT
TRANSCRIBED BY: FMD
DRILLED BY (Company/Driller): ATL / MIKE HAWKINS
GRD. SURFACE 8.5 FT.
ELEVATION FROM: EST. FROM TOPO. MAP

BORING NO.: B2-SB03
START DATE: 7/31/97
COMPLETION DATE: 7/31/97
MON. WELL NO.:
CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
0											
	1 1	17	OU3-B2-SB03-0002			brown	SILT, trace fine sand, roots, grasses, organic fibers	SM	Loose, dry, crumbly	0	*
2'	1 1	24	1500 S-1								
	1 1	16	OU3-B2-SB03-0204			brown	SILT, trace fine sand, some organic fibers, roots, trace Brick-like material, twigs	SM	Dense Dry Fill	0	*
4'	2 2	24	1510 S-2								
	1 2	9	OU3-B2-SB03-0406			black	SILT, trace fine sand, some organics, grass, roots, twigs, Stems, asphalt-like shingles	SM	Sheen on most shingles moist soil fill	16.2	*
6'	2 1	24	1515 S-3								
	2 2	24	OU3-B2-SB03-0608		v-soft	black	S-4A (0-7") SILT, w/organics, white specs-sea shells? Roots	SM or OL?	Moist soil holding water white specs may be from shingles, strong organic odor	125	*
8'	1 2	24	1522 S-4		dense or stiff	Brown-black	S-4B (7-24") PEAT, fibrous laden root system	PT			
	WOH ↓	24	OU3-B2-SB03-0810			brown	PEAT, some silt, fibrous root system Trace white specs (?)	PT	moist soil holding water strong methane like org.	32	*
10'	WOH	24	1530 S-5						odor		
	WOH ↓	24	OU3-B2-SB03-1012		Soft-	black	S-6A (0-15") PEAT and SILT w/organics	OL/ PT	moist soil holding H_2O strong organic odor	220	*
12'	WOH	24	1537 S-6		v-soft	Brown-black	S-6B (15-24") SILT, trace organics trace fine sand	SM	Moist	0	*
	WOH ↓	24	OU3-B2-SB03-1214		soft	brown-black	S-7 = SILT, trace organics, tr. fine sand	SM	holding water moist in Soil	133	*
14'	WOH	24	1545 S-7								
	WOH WOH	24	OU3-B2-SB03-1416			black	S-8 = SILT, trace organics, tr. fine sand	SM	Very soft in one 4-in interval-saturated-rest	42	*
16'	WOH 1	24	1553 S-8						is damp-strong organic Odor		

TYPE OF DRILLING RIG: CME 850 ATV TRACK MOUNTED
METHOD OF ADVANCING BORING: 4.25 in. I.D./8 in. O.D. HSA
METHOD OF SOIL SAMPLING: 3 IN BARREL 300 LB HYDRAULIC HAMMER 18 INCH DROP
METHOD OF ROCK CORING:
GROUNDWATER LEVELS: WATER @ 12.8 IN AUGERS AGS
OTHER OBSERVATIONS: AUGERS TO 14' * BATTERY CRITICALLY LOW

Tetra Tech NUS, Inc.

BORING NO.: B2-SB03

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BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: B2-SB04
PROJECT NO.:	N7491-0320		START DATE: 7/31/97
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY: FMD	COMPLETION DATE: 7/31/97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS		MON. WELL NO.:
GRD. SURFACE	7.0 Ft.	ELEVATION FROM: Est. from topo. map	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
	1		OU3-B2-SB04-0002			brown	SAND - fine sand, tr. silt, roots, glass pieces, concrete,	SP	Loose, dry, fill		
	2	19					debris, asphalt, twigs, tr. coarse gravel, poorly graded			0	0
	4										
2'	4	24	1258 S-1								
	3		OU3-B2-SB04-0204			brown	- similar to above w/glass shards, chunks wood	SP	Loose dry, fill		
	3	18					red cloth			0	0
	4										
4'	2	24	1309 S-2								
	1		OU3-B2-SB04-0406			Brown-Black	SILT w/organics, tr. fine sand, tr. gravel, peat-like	OL/ PT	Moist/Damp		
	1	21					fibers, roots, twigs			60	0
	1										
6'	↓	24	1315 S-3								
	WOH		OU3-B2-SB04-0608			Brown	S-4A (0-9in) SILT-similar to above, less org., glass	OL	Damp		
	1	24					Chunks		Fill	23	0
	2					Gray-Brown	S-4B (9-24in) SILT w/fine to med. sand and tr. organics	SM	Damp		
8'	1	24	1320 S-4				fibers, roots			0	0
	1		OU3-B2-SB04-0810			Black	S-5A (0-4") SILT w/tr. fine sand, some org fibers, stems,	SM	Damp		
	3	18					twigs, roots			10	0
	3					Gray-brown	S-5B (4-18") SAND, some gravel – mostly f/m sand, coarse	SP	Loose, wet		
10'	3	24	1330 S-5				subrounded gravel, poorly graded tr. coarse sand, tr. silt			26	0
	2		OU3-B2-SB04-1012			brown	SAND- mostly f/m, tr. coarse sand, tr. fine subrounded gravel,	SP	saturated loose no fill		
	2	24					tr. silt, no bedding or structures			0	0
	2										
12'	2	24	1340 S-6								
	1		OU3-B2-SB04-1214			brown	SAND - similar to above, no gravel	SP	saturated loose no fill		
	2	23								0	0
	2										
14'	2	24	1350 S-7								
	1		OU3-B2-SB04-1416			brown	SAND - similar to above w/coarse sand and tr. coarse	SP	saturated loose no fill		
	3	24					gravel at base of spoon			0	0
	3										
16'	4	24	1400 S-8				EOB @ 16' AUGERS TO 14'				

TYPE OF DRILLING RIG:	CME 850 ATV TRACK-MOUNTED.
METHOD OF ADVANCING BORING:	4.25' I.D. HSA 8 IN. O.D. HSA
METHOD OF SOIL SAMPLING:	3 IN BARREL 300 LB HAMMER 18 INCH DROP
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	WATER IN AUGERS @ 6.20 FT BGS
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: B2-SB04

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BORING LOG FOR: RAYMARK – OU3- FERRY CREEK
PROJECT NO.: N7491-0320
LOGGED BY: KAYLEEN JALKUT
TRANSCRIBED BY: FMD
DRILLED BY (Company/Driller): ATL MIKE HAWKINS
GRD. SURFACE 2.5 FT.
ELEVATION FROM: Est. from topo. map

BORING NO.: B2-SB05
START DATE: 7/30/98
COMPLETION DATE: 7/30/98
MON. WELL NO.:
CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC./ SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
0											
	1/12 in	18 / 24	OU3-B2-SB5-0002			brown	S-1 (0-8in) organic SILT w/ fine sand (trace) - large phragmite stems, grass, roots, twigs, org. (some)	OL/PT	3 in. recov. initial - relocated 2nd spoon w/recov., v. soft	0	2.9
2'	1/12 in		1320 S-1						(2 spoons), damp		
	WOH	3 / 24	OU3-B2-SB5-0204			brown	S-2 (0-3) organic SILT - similar to above	OL	Empty initially – retried barrel + spoon not much v. soft damp	0	2.6
	WOH										
	WOH										
4'	WOH		1330 S-2								
	WOH	0 / 24	OU3-B2-SB5-0406				S-3 No Recovery		No recovery		
	WOH										
	WOH										
6'	WOH		1340 S-3								
	WOH	9 / 24	OU3-B2-SB5-0608			Black	S-4 (0-9in) similar to S-2 w/ manufactured waste (sludge-like paste) and organics	OL/ FILL	Potential fill w/ glass like fibers - pot. asbestos, v. soft (wet)	0	2.8
8'	WOH		1345 S-4								
	WOH	6 / 24	OU3-B2-SB5-0810			Black	S-5 (0-6) similar to S-4	OL/ FILL	More fill, very soft wet	0	3.2
10'	WOH		1350 S-5								
	WOH	10 / 24	OU3-B2-SB5-1012			Black	S-6 (0-10) similar to above w/ more fine sand and pot. asbestos waste - hair like material	OL/ FILL	No basket used to try and get more recovery, wet	0	13.3
12'	WOH		1400 S-6				black pot. manufactured waste				
	WOH	12 / 24	OU3-B2-SB5-1214			Black	S-7 (0-12) SILT, some fine sand trace fine organic fibers	SM	No waste observed	0	0.2
14'	WOH		1420 S-7								
	WOH	24 / 24	OU3-B2-SB5-1416			black	S-8 (24 in) organic SILT, trace fine sand, organic fibers, twigs	OL? SM?	No visible waste, soft to v. soft wet	0	0.3
16'	WOH		1430 S-8				EOB @ 16'				

TYPE OF DRILLING RIG: CME-850 TRACK MOUNTED ATV RIG
METHOD OF ADVANCING BORING: 4.25' I D HSA 8 in OD Has
METHOD OF SOIL SAMPLING: 3 IN. SPLIT-SPOON DRIVEN WITH A 300 LB. HAMMER W/18 IN. DROP
METHOD OF ROCK CORING:
GROUNDWATER LEVELS: NO WATER IN BORING @ 1435 HRS
OTHER OBSERVATIONS:

Tetra Tech NUS, Inc.

BORING NO.: B2-SB05

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BORING LOG FOR: RAYMARK – OU3- FERRY CREEK
PROJECT NO.: N7491-0320
LOGGED BY: KAYLEEN JALKUT
TRANSCRIBED BY: FMD
DRILLED BY (Company/Driller): ATL / MIKE HAWKINS
GRD. SURFACE 3.0 FT.
ELEVATION FROM: Est. from topo. map

BORING NO.: B2-SB06
START DATE: 7/31/97
COMPLETION DATE: 7/31/97
MON. WELL NO.:
CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID	PID]
	1/12 IN.	6	OU3-B2-SB6-0002			brown	Fibrous, organic, root mat, twigs		Difficult to recover - twigs, vegetation in way of	0	0
2	W.O.H. W.O.H.	24	0850 S-1						sample capture. Damp.		
	W.O.H.	8	OU3-B2-SB6-0204		Very Soft	brown	Org. SILT – mostly silt, organic fibers,	OL	Saturated	2.2	0
4	W.O.H.	24	0856 S-2				TR fine sand				
	1 2	15	OU3-B2-SB6-0406			Gray-brown	S-3A (0-9") gravelly SAND - f/c sand, coarse gravel, Well graded, loose	SW	Saturated, seashells Loose	9.2	15.4
6	2 1	24	0900 S-3		Soft	brown	S-3B (9-24") SILT, tr. fine sand, tr. organic fibers	SM ML (?)	Damp	1.1	10.1
	1 2	9	OU3-B2-SB6-0608			Gray-brown	S-4 gravelly SAND - similar to S-3A	SW	Saturated, loose	0	8.1
8	1/12 IN.	24	0910 S-4								
	1 1	19	OU3-B2-SB6-0810			brown	S-5 gravelly, silty, SAND w/ organic fibers - f/c sand, trace coarse gravel, some silt,	SM	Saturated, loose	0	10
10	1 1	24	0916 S-5								
	1 2	13	OU3-B2-SB6-1012			brown	S-6 sandy SILT, tr. gravel, f/m sand, tr. coarse gravel, tr. clay	SM	More silt than sand Saturated, loose	0	12.4
12	2 2	24	0925 S-6								
	3 6	24	OU3-B2-SB6-1214			brown	S-7A (0-12 in) sandy SILT, some gravel & f/m sand	SM	More gravel than in S-6 Saturated	0	6.4
14	5 4	24	0935 S-7			Gray-brown	S-7B (12-24 in) gravelly SAND, tr. silt, f/c sand & coarse gravel	SW	Fighting running sand. Sand up to 20 in. in flights		
										0	7.8
							EOB @ 14' W/SPOON @ 12' W/AUGER				

TYPE OF DRILLING RIG: CME-850 TRACK-MOUNTED ATV RIG.
METHOD OF ADVANCING BORING: 4.25' I D HSA 8" OD
METHOD OF SOIL SAMPLING: 3 IN. BARREL 300 LB HAMMER (HYDRAULIC) DROP 18 IN
METHOD OF ROCK CORING: N/A
GROUNDWATER LEVELS: NO WASTE OBSERVED. WATER 2.70 FT BGS W/INDICATOR IN AUGER
OTHER OBSERVATIONS: BACKFILL W/ BENTONITE SLURRY

Tetra Tech NUS, Inc.

BORING NO.: B2-SB06

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BORING LOG FOR: RAYMARK – OU3- FERRY CREEK
PROJECT NO.: N7491-0320
LOGGED BY: KAYLEEN JALKUT
TRANSCRIBED BY: MES
DRILLED BY (Company/Driller): ATL / MIKE HAWKINS (ATL)
GRD. SURFACE 6.0 ft.
ELEVATION FROM: Est. from topo. map

BORING NO.: B2-SB07
START DATE: 7/30/97
COMPLETION DATE: 7/30/97
MON. WELL NO.:
CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID	PID]
	1 1	14	OU3-B2-SB07-0002			Brown	SAND – poorly graded f/m, trace silt, trace coarse gravel, grass roots, 1 piece wood	SP	Dry – top soil, loose	0	
2	1 2	24	0800 S-1								
	1 1	17	OU3-B2-SB07-0204	2'		Gray-Brown	SAND, some silt, trace coarse gravel (F/M sand, tr. coarse sand, trace roots)	SP-SM	Dry, tighter than above	0	
4	1 1	24	0810 S-2								
	1 1	24	OU3-B2-SB07-0406			Brown	S-3A (0-7in) SAND f/m poorly graded sand , loose roots	SP	Damp, oxidized (red stain), damp	0	
6	1 1	24	0820 S-3			Black	S-3B (7-14") org SILT ,fine gray sand w/ (1/4 thick) laminations low plasticity	OL		0	
	1 ↓	24	OU3-B2-SB07-0608			Brown black	S-4A (0-5in) org SILT w/ fine med. sand, roots	OL	Sand is red-brown	0	
8	1 ↓	24	0830 S-4				S-4B (5-24in) PEAT - organic material, fibrous root Structure comminuted vegetative tissue	PT	Dense root system, wet	46.5	2.8
	1 1	15	OU3-B2-SB07-0810			Gray-Brown	S-5 (0-15in) SAND, some silt, tr. gravel (coarse), fine sand, tr. Organics (roots)	SP-SM	Damp - lot of seashells	2.7	0.3
10	1 3	24	0840 S-5								
	1 ↓	24	OU3-B2-SB07-1012			Gray-Black	S-6A (0-6") Organic SILT	SM/ OL	No shells observed, no gravel, damp higher plasticity @ top than at base	1.8	0.7
12	1 ↓	24	0850 S-6				S-6B (6-24) org. SILT at top, soft to very soft silty some fine sand, organics (roots)				
	1 6	23	OU3-B2-SB07-1214			Black	S-7A organic SILT, some sand, root matter, soft, very soft	OL (?) SM	similar to above, damp	0	12.7
14	2 2	24	0900 S-7			Black	S-7B SAND (fine), some silt, dense material	SM			
	1 2	16	OU3-B2-SB07-1416			Black Black	S-8A (0-9") similar to S-7B S-8B (9-14")SAND & GRAVEL, coarse,subround gravel, f/c	SM SW-GW	9-14" - coarse sand interval, wet	0	0.3
16	1 4	24	0910 S-8			black	Sand S-8C (14-24) similar to S-8A EOB 16' augers to 14'	SM			

TYPE OF DRILLING RIG: CME 850 ATV TRACK-MOUNTED
METHOD OF ADVANCING BORING: 4.25' I D HSA 8 IN OD
METHOD OF SOIL SAMPLING: 3" SPOON, 18" DROP, 300 LB HAMMER (HYDRAULIC)
METHOD OF ROCK CORING:
GROUNDWATER LEVELS: 8.3' WATER LEVEL THROUGH AUGERS @ 0920
OTHER OBSERVATIONS: BACKFILLED W/ BENTONITE SLURRY

Tetra Tech NUS, Inc.

BORING NO.: B2-SB07

Click Here to Return to List

BORING LOG FOR: RAYMARK – OU3- FERRY CREEK
PROJECT NO.: N7491-0320
LOGGED BY: TRACY DORGAN
TRANSCRIBED BY: FMD
DRILLED BY (Company/Driller): ATL / MARK CHILDS
GRD. SURFACE 5.5 FT.
ELEVATION FROM: Est. from topo. map

BORING NO.: B2-SB08
START DATE: 8/12/97
COMPLETION DATE: 8/12/97
MON. WELL NO.:
CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0	2 2	6"	OU3-B2-SB08-0002		Very Loose	Mottled Red +	Thick phragmites @ surface, phrag. roots below surface w/ some sandy silt matrix, trace glass fragments	SM	1st attempt – 1" recovery, phrag. roots blocked nose	
	1 1	24"	1720 S-1			Dark. Gray	from 0-4 "		re-try @ EOB. glass 0-4"	0.0
2	2 2	16"	OU3-B2-SB08-0204			Gray-Brown	SILT, trace fine sand, phragmites roots as well as finer plant roots noted.	ML	H2S odor very strong, Soft, basket fingers	0.0
	2 1	24"	1550 S-2	4ft. 2 in.					squeezing sample.	
4	1 1	24"	OU3-B2-SB08-0406	Peat			S-3A = 2" similar to above, S-3B = 22" PEAT, mostly phragmites roots + stalk fragments	PT	Wet - saturated	326
	1 1	24"	1605 S-3				in silt matrix			
6	1 1	11"	OU3-B2-SB08-0608	Silt			SILT tr. fine sand, few-little plant fibers and roots, also shell fragments and glass fragments (clear)	ML	Glass fragments - saturated	7.5
	1 1	24"	1620 S-4							
8	W.O.H. W.O.H.	17"	OU3-B2-SB08-0810				S-5A = 8" - similar to S-4 above. S-5B = 9" - silt. trace fine sand, no plant or shell frag.		Saturated	5.9
	1 1	24"	1628 S-5				High mica content		1 lg. Phrag. Root in S-5A	
10	W.O.H. W.O.H.	18"	OU3-B2-SB08-1012							220
	1 1	24"	1640 S-6				Tr. Shells and plant fibers		marine deposits	20
12	W.O.H. W.O.H.	24"	OU3-B2-SB08-1214				marine sed. deposits			
	1 1	24"	1650 S-7				tr. Plant debris – very fine, not whole			
14	W.O.H. 1	18"	OU3-B2-SB08-1416				(comminuted)			28
16	1 1	24"	1710 S-8							

EOB @ 16'

TYPE OF DRILLING RIG: CME-45 SKID RIG
METHOD OF ADVANCING BORING: 4.25' I D HSA
METHOD OF SOIL SAMPLING: 3" OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER W/18" FALL
METHOD OF ROCK CORING: N/A
GROUNDWATER LEVELS: NOT MEASURED
OTHER OBSERVATIONS:

Tetra Tech NUS, Inc.

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BORING LOG FOR: RAYMARK – OU3- FERRY CREEK
PROJECT NO.: N7491-0320
LOGGED BY: KAYLEEN JALKUT
TRANSCRIBED BY: FMD
DRILLED BY (Company/Driller): ATL / MIKE HAWKINS
GRD. SURFACE 3.0 Ft.
ELEVATION FROM: Est. from topo. map

BORING NO.: B2-SB09
START DATE: 7/30/97
COMPLETION DATE: 7/30/97
MON. WELL NO.:
CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID	PID]
0											
	1/12 in.	21	OU3-B2-SB9-0002			brown	S-1A (0-6 in) SAND, fine, dry, loose, grass, roots, trace organic material	SP	top soil, grasses, dry	2.7	0
2	1/12 in.	24	1100 S-1			black	S-1B (6-24in) silty SAND w/ organic plant tissue, roots, phragmite stems, fine sand	SM	org. silt?, damp bottom	0	0
		23	OU3-B2-SB9-0204			black	S-2A (0-12in) org. SILT/PEAT-fibrous tissue, phragmite stems f/m sand fine.	OL (?)	dry @ top, damp at bottom	0	0
4	1/12 in.	24	1110 S-2			black	S-2B (13-24) SAND, some silt, f/m sand poorly graded. w/organics	SP	saturated at ~1', (interval only)	0	0
	1/12 in.	21	OU3-B2-SB09-0406			black	S-3A (0-12) SAND, some silt, f/m sand, poorly graded. w/organics	SP	wet	14.3	8.2
6		24	1120 S-3			brown black	S-3B (12-24) PEAT - organic material, fibrous	PT	can squeeze water out wet	0	0
	WOH	24	OU3-B2-SB09-0608			black	S-4A (0-10in) org SILT, some fine, sand, organic roots	OL	saturated, very soft	0	0
8	1	24	1130 S-4			black	S-4B (10-24) PEAT, organic fibers some silt, trace fine sand	PT	seashells	75.2	23.8
	WOH	23	OU3-B2-SB09-0810			black	S-5A (0-10in) similar to S-4A organic roots	OL		0	3.0
10	1	24	1140 S-5			black	S-5B (10-23in) silty fine SAND, some sand fine, tr. org.	SM OL (?)	dry, dense, crumbles, tr. seashells	1.0	2.9
	WOH	23	OU3-B2-SB09-1012			black	S-6 (0-23in) similar to S-5B tr. org.	SM OL (?)	no seashells	0	1.2
12	WOH 1	24	1146 S-6			↓					
	WOH	24	OU3-B2-SB09-1214			black	S-7 (0-24in) similar to S-6, few organic, fine sand, silty, fine SAND	SM (?) OL (?)	very soft @ top, dense at bottom	14.9	10.9
14	WOH 1	24	1200 S-7								
	WOH	24	OU3-B2-SB09-1416			black	S-8 (0-24in) similar to S-7 w/ tr. organics, tr. twigs	SM OL (?)	wet	45.3	8.9
16	WOH WOH	24	1210 S-8								

EOB @ 16'

TYPE OF DRILLING RIG: CME 850 ATV TRACK MOUNTED
METHOD OF ADVANCING BORING: 4.25 IN ID HSA 8 IN OD AUGERS TO 14' SB TO 16'
METHOD OF SOIL SAMPLING: 3" SPLIT BARREL W/ 300 LB HAMMER (HYDRAULIC) 18 IN DROP
METHOD OF ROCK CORING:
GROUNDWATER LEVELS: 1155 HRS WATER NO IN HOLE YET, CHECKED AGAIN - NO WATER ENTERED HOLE @
OTHER OBSERVATIONS: BACKFILL W/ BENT. SLURRY

Tetra Tech NUS, Inc.

BORING LOG FOR: RAYMARK OU2 | BORING NO.: SB-312B
PROJECT NO.: | START DATE: 01/21/99
LOGGED BY: T. DORGAN | TRANSCRIBED BY: MES | COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller): Aquifier Drilling & Testing Inc./M. Harrington | MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION: 7.3' | ELEVATION FROM: NGVD-1929 | CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Soil Surface			
							No samples 0-2'			
2										
	10	0.5	OU2-SO-312-0204			Orange	S-1A = 0.3' fine-medium poorly graded SAND	SP	Saturated	FID = 84 (methane?)
	5					Brown		SM/ML		PID = 0.0
	3	2.0				Dark	S-1B = 0.2' fine SAND & SILT abundant root fibers			
4	7		1100 S-1			Brown				
	5	0.2	OU3-SO-312-0406		Soft	Dark brown	SILT – trace-few clay abundant roots and organic debris, not quite peat	OL / PT	Poor recovery	FID = 68 PID = 0.0
	3									
	7	2.0								
6	2		1115 S-2							
	1	0.0	1.2/2.0 OU3-SO-		Very Soft		Clayey, SILT, abundant roots and plant fiber. Trace fine		No recovery w/2 in. Re-sample w/3" spoon	FID = 111.6 PID = 13.1
	WOH		3" spoon 312-0608				Sand, borderline peat.		w/baggy in nose, = 1.2' recovery	
	1	2.0	S-3							
8	1		1135 S-4							
	1	1.2	OU3-SO-312-0810				S-5A = 1.0' similar to above		PEAT=	FID-2092 PID-35.4
	1		-1302 + S-5B 0910'							
	2	2.0	-1300 = S-5A 0809'			Lt. gray	S-5B = 0.2' – SAND, mostly poorly graded Med. sand	SP	Saturated SAND=	FID = 1050 PID = 26.1
10	3		0910 S-5							
	7	0.0	OU3-SO-312-1012		No recovery	No Recovery	No Recovery	No Recov.	No recovery	
	2									
	4	2.0								
12	5		1320 S-6							
	15	0.8	OU3-SO-312-1214			Light Gray	SAND, mostly fine-coarse well graded sand. Trace silt, trace fine-coarse subrounded gravel.	SW	Saturated	FID = 80 PID = 0.0
	10									
	11	2.0								
14	6		1345 S-7							
	5	1.3	OU3-SO-312-1416			Olive-Gray	Mostly fine-med. Poorly graded SAND	SP	No structure noted.	FID = 20.7 PID = 0.0
	9		1410=DUP-01							
	11	2.0					Trace silt, trace subangular, fine gravel			
16	13		1400 S-8							

TYPE OF DRILLING RIG: Mobile Drill – B59
METHOD OF ADVANCING BORING: 5 in.ID D&W casing to 14ft.bgs. Wash out & change water,telescope to 4 in.ID drive & wash casing
METHOD OF SOIL SAMPLING: 2 in. split-barrel sampler driven w/a 140lb.hammer w/a 30in. drop
METHOD OF ROCK CORING: NQ wireline
GROUNDWATER LEVELS:
OTHER OBSERVATIONS:

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK OU2		BORING NO.: SB-312B
PROJECT NO.:			START DATE: 01/21/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller):	Aquifier Drilling & Testing Inc./M. Harrington		MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION:	7.3'	ELEVATION FROM: NGVD-1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
16										
18										
	22	1.0	OU2-SO-312-1921			yellow-Orange,red	Gravely, fine-coarse SAND, well graded	SW	Heavy oxidation in Bottom 4 in.	FID = 0.0 PID = 0.0
20	28									
	19	2.0				Orange in Bottom 4"				
	30		1505 S-9							
22										
24										
	15	0.5	OU2-S0-312-2426			Yellow - orange	Similar to S-9 above	SW	Oxidation staining throughout	FID = 0.0 PID = 0.0
	12									
	18	2.0								
26	22		1525 S-10							
28										
	8	1.0	OU2-S0-312-2931			Tan-Light	SAND, mostly fine poorly graded sand, trace-few silt	SP	minor oxidation & bedding noted	FID = 0.0 PID = 0.0
30	7									
	15	2.0				brown				
	18		1545 S-11							
32										

TYPE OF DRILLING RIG:	Mobile Drill – B-59
METHOD OF ADVANCING BORING:	5 in. ID D&W casing to 14 ft. bgs. Wash out & change water, telescope to 4 in. ID drive & wash casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140lb hammer with a 30 in drop
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK OU2		
PROJECT NO.:		BORING NO.:	SB-312B
LOGGED BY:	T. DORGAN	START DATE:	01/21/99
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing Inc./M. Harrington	TRANSCRIBED BY: MES	COMPLETION: DATE: 01/27/99
GRD. SURFACE ELEVATION:	7.3'	MON. WELL NO.:	MW-312B
ELEVATION FROM:	NGVD-1929	CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
32										
34										
	11	1.2	OU2-SO-312-3436			Tan	SAND fine – med. Poorly graded sand, trace few silt	SP	Minor bedding	FID = 0.0
	19		Raining			Light				PID = 0.0
	21	2.0				Brown				
36	22		1610 S-12			orange				
38										
	18	1.3	OU2-SO-312-3941				Silty, fine poorly graded SAND	SM		FID = 0.0
40	26									PID = 0.0
	33	2.0								
	31		1625 S-13							
42										
44										
	5	1.5	OU2-SO-312-4446				f-c well graded SAND, trace silt	SW		FID = 0.0
	8									PID = 0.0
	11	2.0								
46	13		1635 S-14							
48										

TYPE OF DRILLING RIG:	Mobile Drill – B59
METHOD OF ADVANCING BORING:	5 in ID D&W casing to 14 ft. bgs. Wash out & change water, telescope to 4 in. ID drive & wash casing.
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in drop
METHOD OF ROCK CORING:	No wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	1-2' 99 d&w to 44', sample 44-46', secure borehole.

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK OU2		BORING NO.: SB-312B
PROJECT NO.:			START DATE: 01/21/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller):	Aquifier Drilling & Testing Inc./M. Harrington		MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION:	7.3'	ELEVATION FROM: NGVD-1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
48										
	4	1.5	OU2-SO-312-4951			light brown with orange streaks	Fine – med. Poorly graded SAND, trace silt	SP	Minor bedding	FID = 0.0 PID = 0.0
50	8									
	15	2.0	0845 S-15							
	12									
52										
54										
	6	1.8	-5456			Light brown	FGR SAND, poorly graded	SP		FID = 0.0 PID = 0.0
	5									
	7	2.0								
56	8		1140 S-16							
58										
	4	1.8	-5961			Light brown	FGR SAND, poorly graded	SP	Minor bedding	FID = 0.0 PID = 0.0
60	8									
	11	2.0								
	13		1202 S-17							
62										
64										

TYPE OF DRILLING RIG:	Mobile Drill – B59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	5 in. ID D&W casing to 14 ft. bgs. Wash out & change water, telescope to 4 in ID drive and wash casing		
METHOD OF SOIL SAMPLING:	2 in. split barrel sampler driven with a 140lb hammer with a 30 in drop		
METHOD OF ROCK CORING:	NQ wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	D. Waylon logged S-16 through S-21	BORING NO.: SB-312B	PAGE: 4 OF 8

BORING LOG FOR:	RAYMARK OU2		BORING NO.: SB-312B
PROJECT NO.:			START DATE: 01/21/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing Inc./M. Harrington		MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION:	7.3'	ELEVATION FROM: NGVD-1929	CHECKED BY:

DEPTH (FEET) 64	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
	7 6	2.0	OU2-SO-312-6466			Light Brown	FGR SAND, poorly graded	SP		FID = 0.0 PID = 0.0
66	11 10	2.0	1234 S-18							
68										
70	7 19	1.2	-6971			Light brown	FGR SAND and silty, FGR sand at bottom	SP	Minor Bedding	FID = 0.0 PID = 0.0
	31 47	2.0	1305 S-19							
72										
74										
	4 12	2.0	-7476 S-20:74'-76'			Light brown	FGR SAND, poorly graded	SP	Minor bedding	FID = 0.0 PID = 0.0
76	14 29	2.0	1333 S-20							
78										
80	7 19	1.8 2.0	OU2-SO-312-7981 1425 S-21			Light brown	FGR sand, poorly graded	SP		FID = 0.0 PID = 0.0

TYPE OF DRILLING RIG:	Mobile Drill – B59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	5 in ID D&W casing to 14 ft. bgs. Wash out & change water, telescope to 4 in ID drive and wash casing		
METHOD OF SOIL SAMPLING:	2 in. split barrel sampler driven with a 140 lb. Hammer with a 30 lb drop		
METHOD OF ROCK CORING:	NQ wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	D. Waylon logged S-16 through S-21.	BORING NO.: SB-312B	PAGE: 5 OF 8

BORING LOG FOR: RAYMARK OU2 | BORING NO.: SB-312B
PROJECT NO.: | START DATE: 01/21/99
LOGGED BY: T. DORGAN | TRANSCRIBED BY: MES | COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller): Aquifier Drilling & Testing Inc./M. Harrington | MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION: 7.3' | ELEVATION FROM: NGVD-1929 | CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
80	61 80	1.8 2.0	OU2-SO-312-7981			Light brown	Fine, poorly graded SAND	SP		FID&PID =0.0
82										
84										
	6 8	2.0	OU2-SO-312-8486			Light red brown	Fine – med. Poorly graded SAND	SP	No structure noted	FID = 0.0
86	13 34	2.0	1020 S-22							
88										
90	8 13	1.5	OU2-SO-312-8991	Top of Bedrock		Red-brn Olive – brn gray	Similar to S-22 above for ~6" grades into a silty, fine Poorly graded SAND approximately 1 ft. sharp contact with Saprolitic schist in bottom 4 in.	SP SM	Fine bedding noted above rock contact. Roller bit (4 in) to 93', change water and clean out tub.	FID = 0.0
	41 50/2	1.7	1130 S-23	90.5'				Bedrock		
92										
							GNEISS. Biotite, muscoite, quartz mafic gneiss with Near vertical foliation. Numerous horiz. To high			
94		~2:00	C-1 = 93-99			dark gray w/	angle fractures from 93-96.5'. Heavy oxidation staining and halo's, trace gouge.		Many fractures 45 & 90°	
		2:15	PEN = 6.0 REC = 5.8			light gray			to foliation plane in axis.	
96		2:10	RQD length = 28 in RQD 39%			white bands			~10 gal. lost	

TYPE OF DRILLING RIG: Mobile Drill – B59
METHOD OF ADVANCING BORING: 5 in ID D&W casing to 14 ft bgs. Wash out & change water, telescope to 4 in ID drive & wash casing
METHOD OF SOIL SAMPLING: 2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING: NQ wireline
GROUNDWATER LEVELS:
OTHER OBSERVATIONS: FID-B.

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK OU2		BORING NO.: SB-312B
PROJECT NO.:			START DATE: 01/21/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing Inc./M. Harrington		MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION:	7.3'	ELEVATION FROM: NGVD-1929	CHECKED BY:

DEPTH (FEET) 96	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		2:30				Similar to above	Rock-type similar to above, GNEISS-PARAGNEISS? 45° angle fractures noted @ 98.25, 98.8 & 99.25 w/ white			
98		2:00					calcite x-tals & light green calcite deposition. Two horiz. Frac. W/oxidation stains at 100'			
		2:30								
100			C-2 = 99'-106.2' Pen = 7.2' REC = 7.3' (picked up C-1 remnant) RQD length= 69.25" RQD = 65%							
		2:20								
102		2:00					Bedrock grading into a mica (biotite & muscovite) rich SCHIST from gneiss. High angle fractures parallel to		Jagged Fracture along Crinkle folds, 100gallons lost in C-2. Lost H2O	
		2:00					Foliation w/oxidation & gouge @ 101-101.5. Connected To horiz. Fracture. Also hgh angle fracture w/mica			
104		2:15					Gouge @ 102.5 rock is soft, numerous jagged Oxidized fracture @ 103& 104.			
		2:15							Approx. 100 gall. lost in C-2. Lost H_2O return.	
106		2:30					Degraded and saphrolitic with multi. Fracture 105-106.5		Core/rock jammed ~106	
		2:45	C3 = 106.2' – 109' Pen = 2.8' Rec = 2.45' RQD length = 21" RQD = 62%							
108		3:30								
		3:15					Jagged, oxidized fracture @ 108 & 108.8 - inc. chlorite and trace garnet noted with depth		Crinkle folding noted	
110		3:00	C-4 = 109'-118.7' Pen = 9.7' Rec = 10.3' RQD length = 103"				Quartz vein (vuggy) with chlorite, pyrite noted ~0.5' wide @ 110.			
		3:00								
112		3:15					Low angle fracture w/oxidation @ 111.5'			

TYPE OF DRILLING RIG:	Mobile Drill – B59
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

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BORING LOG FOR: RAYMARK OU2
PROJECT NO.:
LOGGED BY: T. DORGAN
TRANSCRIBED BY: MES
DRILLED BY (Company/Driller): Aquifier Drilling & Testing Inc./M. Harrington
GRD. SURFACE ELEVATION: 7.3'
ELEVATION FROM: NGVD-1929

BORING NO.: SB-312B
START DATE: 01/21/99
COMPLETION: DATE: 01/27/99
MON. WELL NO.: MW-312B
CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
112										
		3:30	RQD by Pen length = 88%			Similar To above	High angle fracture along foliation w/calcite deposition @ 112'-113'. Numerous oxidized high angle fractures to 113.5'			
114		3:15	RQD by Rez. Length == 83%							
		3:45				dark gray green w/ white bands	Horiz. Fracture @ 115.5. High angle and 45° fracture @ 116'			
116		3:20								
		3:15								
118		3:25					High angle wavy fracture @ 118'.			
		3:50	C-5 = 118.7' – 122' Pen = 3.3' Rec = 3.3' RQD length = 33" RQD = 83%				High angle jagged fracture @ 119' and clean fracture @ 119.5			
120		3:00					High angle fracture with trace calcite deposit ~ 121-122'			
		3:25								
122		2:50								
		2:10	C-6 = 122'-124' Pen = 2' Rec = 1.4' RQD leng. 16.8" RQD by pen = 70% RQD by Recov.=100%				C-6 = solid core, similar rock type to above			
124		2:30					Left 0.6' stub @ EOB			
							EOB = cored to 124' open to 123.4'			

TYPE OF DRILLING RIG: Mobile Drill – B59
METHOD OF ADVANCING BORING: 4 in. ID drive and wash casing
METHOD OF SOIL SAMPLING: 2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING: NQ wireline
GROUNDWATER LEVELS:
OTHER OBSERVATIONS:

Tetra Tech NUS, Inc.

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BORING LOG FOR:	RAYMARK/OU2/OU4/PHASE 1GROUNDWATER			BORING NO.:	SB-312S
PROJECT NO.:				START DATE:	2/3/99
LOGGED BY:	A. Putnam	TRANSCRIBED BY:	MES	COMPLETION: DATE:	2/3/99
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing Inc./K. Kutarnia			MON. WELL NO.:	MW-312S
GRD. SURFACE ELEVATION:	7.5’	ELEVATION FROM:	NGVD-1929	CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6”	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT’L CHG./ WELL PROF’L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							No soil samples taken, refer to boring log 312B for description.			
4									5” casing to 8.5’ to get a good sand (filter) pack around the screen.	FID=2.6 to 15.1 PPM while washing out to 9’ bgs.
8										
8.8										

TYPE OF DRILLING RIG:	CME
METHOD OF ADVANCING BORING:	5” ID Drive & Wash Casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. hammer with a 30 in. drop.
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	N/A
OTHER OBSERVATIONS:	Strong odor while washing out @ 8’ bgs—the FID reading ranged from 2.6 to 15.1 PPM. Odor cleared after it was washed out

Tetra Tech NUS, Inc.

BORING NO.: SB-312S